

Title (en)

Device and method for cleaning large surfaces, in particular building windows

Title (de)

Vorrichtung zum Reinigen von grösseren Flächen, insbesondere Gebäudeverglasungen, sowie Reinigungsverfahren

Title (fr)

Dispositif et méthode pour nettoyage de grandes surfaces, en particulier les vitrages des édifices

Publication

**EP 0847720 A3 19991117 (DE)**

Application

**EP 97250371 A 19971211**

Priority

DE 19653697 A 19961214

Abstract (en)

[origin: DE19653697C1] The machine has one or more brush rollers (4), which are rotated in a brush carriage (1,2) that travels over a surface to be cleaned. The roller is rotated to thrust the carriage forward. Two holding ropes (8) are attached under tension to points on the carriage. The points are spaced apart, so that the carriage can be slewed parallel to the surface. The end of each rope furthest from the carriage can be wound onto a drum (10). The drums turn independently of each other to slew the carriage. A winch can be coupled to the carriage to assist its forward movement. The drums can be arranged to slew on a common vertical mounting spindle (16).

IPC 1-7

**A47L 1/02**

IPC 8 full level

**A47L 1/02** (2006.01); **A47L 11/38** (2006.01); **E04G 23/00** (2006.01)

CPC (source: EP)

**A47L 1/02** (2013.01); **A47L 11/38** (2013.01); **A47L 11/40** (2013.01); **A47L 11/4061** (2013.01); **A47L 11/4069** (2013.01); **E04G 23/002** (2013.01)

Citation (search report)

- [A] DE 3445305 A1 19860612 - KAMM RUEDIGER, et al
- [A] FR 2725924 A1 19960426 - CONSORTIUM DE MAINTENANCE ET D [FR]
- [A] DE 1869097 U 19630321 - HERMANN HOLTkamp K G [DE]
- [A] GB 2243070 A 19911023 - ASTON INT LTD [GB]
- [A] PATENT ABSTRACTS OF JAPAN vol. 017, no. 647 (C - 1135) 2 December 1993 (1993-12-02)
- [A] PATENT ABSTRACTS OF JAPAN vol. 006, no. 178 (M - 155) 11 September 1982 (1982-09-11)

Cited by

FR3010644A1; CN114458036A; US2014109932A1; US9681784B2; CN116138673A; US10111563B2

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DOCDB simple family (application)

**DE 19653697 A 19961214**; EP 97250371 A 19971211